

Please replace the paragraph beginning at page 8, line 11, with the following rewritten paragraph:

B¹ -- Figure 3 depicts the nucleic acid and amino sequences of: Wild-type (SEQ ID Nos. 12 & 13), TKF105 (SEQ ID Nos. 55 & 56), TKI208 (SEQ ID Nos. 22 & 23), and TKF2 (SEQ ID Nos. 57 & 58) TK for codons 165 to 175. --

Please replace the paragraph beginning at page 9, line 6, with the following rewritten paragraph:

B² -- Figure 14 is an illustration which depicts the nucleotides which were randomized in the LIF-ALL library (SEQ ID NO:47), as well as the results of selection. --

Please replace the paragraph beginning at page 9, line 8, with the following rewritten paragraph:

B³ -- Figure 15 is a table which shows amino acid substitutions of selected (SEQ ID Nos. 71-88) and unselected clones (SEQ ID Nos. 89-104). --

Please replace the paragraph beginning at page 9, line 12, with the following rewritten paragraph:

B⁴ -- Figure 17 is a table which shows nucleotide changes in selected TK mutants (SEQ ID Nos. 59-70). --

Please replace the paragraph beginning at page 9, line 20, with the following rewritten paragraph:

B⁵ -- Figure 21 shows semi-randomized oligonucleotides (SEQ ID Nos. 114 & 115) used to generate a second generation of TK mutants having amino acid substitutions in residues 159-161 and 168-169. --

Please replace the paragraph beginning at page 9, line 23, with the following rewritten paragraph:

B6 --Figure 22 illustrates the use of particular oligonucleotides (SEQ ID Nos. 116-121) to construct TK mutants having amino acid substitutions in residues 112-132. --

Please replace the paragraph beginning at page 9, line 27, with the following rewritten paragraph:

B7 --Figure 24 illustrates a nucleotide sequence (SEQ ID NO:48) and deduced amino acid sequence (SEQ ID NO:49) representative of a human guanylate kinase. --

Please replace the paragraph beginning at page 9, line 29, with the following rewritten paragraph:

B8 --Figure 25 illustrates a nucleotide sequence (SEQ ID NO:50) and deduced amino acid sequence (SEQ ID NO:51) of a representative murine guanylate kinase. --

Please replace the paragraph beginning at page 84, line 3, with the following rewritten paragraph:

B9 --Seven mutants that demonstrated required activities were selected for further study. Table VI shows the wild-type TK (SEQ ID NO:105) and deduced amino acid sequence of these seven mutants (SR11, SR26, SR39, SR4, SR15, SR32, SR53; SEQ ID Nos. 106, 107, 108, 109, 110, 111, and 112 respectively). --

Please replace the paragraph beginning at page 87, line 18, with the following rewritten paragraph:

B10 --To construct a dummy vector for insertion of the random sequences, a *NarI* (or *KasI*) site was introduced into pET23d:HSVTKII by site-directed mutagenesis, using primer DMO1358 (5'-GTCTCGGAGGCGCCCAGCACC-3'; SEQ ID NO:113) within the wild-type thymidine kinase open reading frame at nucleotide position 276 from the ATG. The